HPLC Data Auditing Check Sheet Surveyor:	t					
Method: Laboratory:		Rev.3, 8/05				
Hard Copy Data Review		Yes	No	Comments		
Proficiency Samples:						
1. Analysis date:						
2. PE successful?						
Calibration:						
1. Standard Information						
-Analysis date:						
-Analyst:						
-Instrument ID:						
-UV Detector						
-Fluorescence Detector						
-Software type:						
-File names:						
Quantitation Report and Chromatogra	nm Review					
-Does the lab have adequate hard cop	y data?					
-Are all standards run the same day/ba Acquired Times)	atch? (Check					
-Is the method update time the same f	For each file?					
-Is the chromatogram info the same as reports (i.e. same file names, acquisitimethod update times, print time)?						
-Is the chromatogram printed using a	scale that is					

HPLC Data Auditing Check Sheet Surveyor:	
Method: Laboratory:	Rev.3, 8/05
visible?	
-Do the standards have the proper sensitivity?	
-Do the standard peaks have acceptable separation?	
-No significant contamination?	
-Are the peaks properly ID'd and the run time appropriate?	
-Do the peak responses on the quant. reports match those of the calibration summary report (hand calculate a few-especially manual integrations)?	
-Do the calibration levels support the laboratory's reporting levels (check cal. level vs. final report of sample vs. MDLs)?	
3. Calibration Method Information	
-Quantitation method file name:	
-Calibration type (i.e. linear, RF, etc.):	
-Same for all compounds?	
-Was the calibration criteria met for each compound (i.e. RSDs)?	
-"force thru the origin"?	
-Were data points eliminated from the calibration?	
-If yes, why?	
-Was this done appropriately?	
Attach photo copy documentation of any areas of concern	

HPLC Data Auditing Check Sheet Surveyor: Method: Laboratory:	Rev.3, 8/05	
Sample Information:		
-Sample date/time (from COC):		
-Were the samples properly preserved?		
- Does the final report have the AZ License noted?		
Sample Preparation Procedures:		
-Extraction method:		
-Extraction date/time:		
-Did the sample meet the extraction hold time?		
-Is the extraction documentation correct and complete?		
- Did the extraction need clean up (EPA 3630)?		
-Was the extraction acceptable (refer to check sheets or hand notes)?		
Attach photo copy documentation of any areas of concern		
Sample Analysis:		
-Sample ID:		
-Analysis date/time:		
-Was the sample hold time met?		
-Was the proper QC run with the sample batch?		
-Was the QC at the proper concentrations?		
-Was the appropriate OC (including tune if MS)		

HPLC Data Auditing Check Sheet Surveyor:			
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criteria met?			
- What are the flow rates?			
-Do all low level QC checks have adequate sensitivity?			
-Does the hard copy data correspond to the sequence report?			
-Are there any major breaks in the acquisition times?			
-Do all the samples/QC in the batch have the same method update time?			
-Do all chromatograms have corresponding information to the respective Quant Report (i.e. same file names, acquisition times, method update times, same RTs, <u>print time</u> )?			
-Are the response factors of the samples the same as from the calibration (calculate a few)?			
-Are the chromatograms printed using a scale that is visible?			
-Do all samples/QC in the batch have adequate peak separation?			
-No significant contamination or matrix interference?			
-Are the peaks properly ID'd?			
-Are all the peaks integrations appropriate and consistent?			
-Do the analytical results on the Quant Report match those on the final report?			
Attach photo copy documentation of any areas of concern			
Laboratory Review	Yes	No	Comments

	Oata Auditing Check Sheet					
_	Laboratory:	Rev.3, 8/05				
-Wa	as the analyst(s) available for interviewing?					
	d the analyst(s) provide adequate response to the cerns found from the hard copy data review?					
-We	as the analyst(s) following proper procedure?  -If no, see notes or check sheets.  -If no, is SOP correct?  -If no, is the QAP correct?					
	d the lab have the proper equipment and rumentation?					
-Dio	d the lab have the proper reagents?					
	d the lab have adequate documentation such as run s, maintenance logs, temperature logs and standard s?					
- Are	e the eluent bottles labeled?					
Electronic	Data Review:	Yes	No	Comments		
	nt Miner Review (If Applicable) e any problems identified?					
In I als Da						
In-Lab Rev						
2. Hig	h and low standard					
-Do	bes the low standard have acceptable sensitivity					
	aration?					
-Do	all the compound peaks have appropriate and					

Rev.3, 8/05
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Method/Analyte	Method Reference	QC	Frequency	Limits	Lab SOP	COMMENTS
531.1	9.3.1 & 9.3.2	ICAL	3 pts.	<20% RSD		
Rev. 3.0 Carbamates (Fluorescence)	9.3.3	DAILY	beginning & end of run, two different concentrations	±20%		

Method/Analyte	Method Reference	QC	Frequency	Limits	Lab SOP	COMMENTS
	10.6.1, 10.3.2 & Table 2	LFB (LCS)	one per set or 20 samples	Table 2, R±30%		
	10.7.1	MS	5 %	same as LFB		
	11.2.3	Mobile Phase	Methanol/water (400 u injection)	l sample		
547	9.2 & 9.3	ICAL	3 pts	<10% RSD		
Glyphosate July 1990 (Fluorescence)	9.4	DAILY	beg & end, different conc.	±20%		
	10.5 & 10.3.2	LFB	one per set or every 24 hr.	Table 2 R±30%		
	10.6.1 & 10.6.2	MS	10% or one per set	Table 2 R ±30%		
	7.1.1 & Table 1 (sec. 10.4 - can modify conditions)	Mobile Phase	0.005 M KH2PO4 in 9 ml MeOH, adjust to phydrochlorite & OPA f Derivatization made dasample injection			
549 Diquat & Paraquat	9.3	ICAL	3 pts Diquat @ 308nm Paraquat @ 257nm	prepare curve		
Rev 1.0 August 1992 (UV)	9.4	DAILY	beg & end, different conc.	±20%		
	10.5 & 10.3.2	LFB	one per set/24hr	Table 2 R±30%		
	10.6	MS	10%	same as LFB		
	7.16	Mobile Phase	3 g 1-hexanesulfonic a 13.5 ml ortho-phospho diethylamine in 1 L wa			

Method/Analyte	Method Reference	QC	Frequency	Limits	Lab SOP	COMMENTS
549.1 Diquat & Paraquat	10.3	ICAL	3 pts Diquat @ 308nm Paraquat @ 257nm	prepare curve		
Rev. 1.0 August 1992 (UV)	10.4	DAILY	beg. & end. different conc.	±20%		
	9.5	LFB	1 per set/ 24 hr	Table 2 R±30%		
	9.6	MS	10% or one per set	same as LFB		
	7.16	Mobile Phase	3 g 1-hexanesulfonic ac 13.5 ml orthophosphori diethylamine in 1 L wa	ic acid, 10.3 ml		
550 &550.1	9.2	ICAL	3 pts			
PAH (method sections are the same)	9.4	DAILY	beg. & end different conc.			
July 1990	10.5 &10.3.2	LFB	one per set/24hr			
	10.6	MS	10% one per set			
	Table 1	Mobile Phase	Acetonitrile and water			
553	7.12 & 10.2.9	ICAL	6 pts	<20%		
Benzidines & Nitropesticides LC/MS Rev 1.1 August 1992	Tune: 10.3.1 Cal: 10.3.2, 10.3.4 & 10.3.5	DAILY	Tune:use DFTPPO every 8 hours Cal:mid level every 8 hrs.	Tune: Table 1 Cal: ±20% area of Ical Std. & ±20% of true value		
	9.5 & 9.3.3	LFB	one per sample set	70-130%		
	9.6, 9.1 & 9.3.3	MS	regularly	70-130%		
	7.13	Mobile Phase	75/25 water/ACN with Acetate @ 0.01 M			
	7.1, 9.3.3	Surrogate	70-130%			

Method/Analyte	Method Reference	QC	Frequency	Limits	Lab SOP	COMMENTS
554 Carbonyl Rev 1.0	10.2	ICAL	5 pts. External only, derivatize & extract the standards	prepare curve		
August 1992	10.2.2.2	DAILY	each day	±10 %		
	9.4	LFB	one per 20 sample or per 24hr	lab sets		
	9.5, 9.4	MS	10% or per sample set	same as LFB limits established		
	10.1	Mobile Phase	MeOH/water			
		section 10.1 "Establish the HPLC operating parame peaks"				
555 Chlorinated	10.1 & 10.2	ICAL	External cal only. Minimum 3 standards	20% RSD or curve		
Acids Rev 1.0 August 1992 UV detector	10.2.3	DAILY	each analysis day. Recommend end of day	±25%		
	9.5.1, 9.5.2 & 9.3.2, Table 2	LFB	one per 20 samples or every 24 hr, whichever is greater	R ±30%		
	9.6.1, 9.6.2	MS	10%	if no contamination , same as LFB. If cont. Use formula in section 9.6.2		
	6.4.1, 9.4	Mobile Phase	0.025 M H <sub>3</sub> PO <sub>4</sub> & Acet gradient, but analyst pe change columns, condit detectors			

Method/Analyte	Method Reference	QC	Frequency	Limits	Lab SOP	COMMENTS		
			tion column required (sec.6.4). No unresolved peaks in the same sec. 10.1) must separate all analytes between primary & confirmation					
610 PAH	7.2 external 7.3 internal	ICAL	3 points	RF<10% RSD				
UV and/or Fluorescence	7.4	DAILY	each working day	±15%				
detector Note:GC can	8.4	LFB	when MS/MSD fails	Table 3				
also be done for this method	8.3	MS/MSD	10% of samples	Table 3, column P				
	12.2 &Table 1	Mobile Phase	water and acetonitrile - 100% ACN	gradient to				
8310 PAH	8000B, section 7.4 & 7.5	ICAL	5 points for linear 6 pts for quadaratic 7 for third order (polynomial)	<20%RSD to use average RF Cannot force 2nd or third order through zero				
	8000B, section 7.7 for average, 7.7.1for linear, 7.7.2 for non-linear	DAILY	beginning & end (8.2.2) of each twelve hour shift. And every ten samples recommended (7.7.6)	±15% response, concentration or drift				
	8000B, section 8.5	LFB	one per batch up to 20 samples extracted together	in-house. Should be ~70-130%				
	8000B, section 8.5	MS/MSD	same as above	same				
	8000B, section 8.6	Surrogate	each sample in-house (8.7)					
	8310, section 7.2	Mobile Phase	water/Acetonitrile					

Method/Analyte	Method Reference	QC	Frequency	Limits	Lab SOP	COMMENTS
8330 Explosives	8000B, section 7.4 & 7.5	ICAL	5 points for linear 6 pts for quadaratic 7 for third order (polynomial)	<20%RSD to use average RF Cannot force 2nd or third order through zero		
	8330, section 7.3.3	DAILY	beginning & end of each group of 10 samples and midway through sequence	±15% response, concentration or drift		
	8000B, section 8.5	LFB	one per batch up to 20 samples extracted together	in-house. Should be ~70-130%		
	8000B, section 8.5	MS/MSD	same as above	same		
	8000B, section 8.6	Surrogate	each sample in-house (8.7)			
	8330, section 7.2	Mobile Phase	50/50 methanol/water (recommended)			